

Title (en)  
PISTON WITH A STRUCTURED DESIGN

Title (de)  
KOLBEN IN STRUKTURBAUWEISE

Title (fr)  
PISTON EN MODE DE CONSTRUCTION STRUCTURELLE

Publication  
**EP 3612727 A1 20200226 (DE)**

Application  
**EP 18719122 A 20180418**

Priority  
• DE 102017108314 A 20170419  
• EP 2018059875 W 20180418

Abstract (en)  
[origin: WO2018192959A1] Disclosed is a piston (1) of an internal combustion engine, constructed with a structured design and having two supporting shaft wall sections (2) lying opposite one another, with respective connecting walls (3) extending from a piston hub (4) towards the lateral edge of the supporting shaft wall sections (2), characterised in that at least one rib (5; 6; 7), preferably three ribs (5, 6, 7) is (are) provided in an inner region of the piston (1) and the amount of material in the regions surrounding the at least one rib (5; 6; 7) is reduced.

IPC 8 full level  
**F02F 3/00** (2006.01); **F02F 3/22** (2006.01)

CPC (source: EP US)  
**B23P 15/10** (2013.01 - US); **F02F 3/003** (2013.01 - EP); **F02F 3/0076** (2013.01 - EP US); **F02F 3/22** (2013.01 - US); **F16J 1/02** (2013.01 - US); **F16J 1/04** (2013.01 - US); **F02F 3/22** (2013.01 - EP); **F02F 2200/04** (2013.01 - US)

Citation (search report)  
See references of WO 2018192959A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2018192959 A1 20181025**; BR 112019021016 A2 20200505; CN 110869600 A 20200306; DE 102018109205 A1 20181025; EP 3612727 A1 20200226; US 11668263 B2 20230606; US 2020072158 A1 20200305

DOCDB simple family (application)  
**EP 2018059875 W 20180418**; BR 112019021016 A 20180418; CN 201880025842 A 20180418; DE 102018109205 A 20180418; EP 18719122 A 20180418; US 201816605521 A 20180418